

Title (en)

Hot-wire type air-flow meter arrangement for internal combustion engines

Title (de)

Hitzdraht-Luftmengenmesser-Anordnung für Brennkraftmaschinen

Title (fr)

Arrangement d'un débitmètre d'air de type à fil chaud pour moteurs à combustion interne

Publication

EP 0660090 B1 20010912 (EN)

Application

EP 95100012 A 19880615

Priority

- EP 88109534 A 19880615
- JP 14899387 A 19870617

Abstract (en)

[origin: EP0322459A1] The body (1) of the device in the engine air intake forms a substantially cylindrical prim. flow path (3) into which an integrally-formed projection (2) opens at a bellmouth (4a) to provide an auxiliary flow path (4) past the hot-wire element (10) and temp. compensator (12). These components (10,12) are installed in an axial section of the auxiliary flowpath (4) which then bends into a radial section (5) with outlets (5a) into the main flow. The bend has a pressure-damping effect which protects USE/ADVANTAGE : Esp. with automotive engine, compact flowmeter is sufficiently precise for control if air/fuel ratio but free from turbulence noise and pulsation instability, hot-wire element is not susceptible to damage from engine blowback.

IPC 1-7

G01F 1/68; **G01F 5/00**; **F02D 41/18**

IPC 8 full level

G01P 5/12 (2006.01); **F02D 35/00** (2006.01); **F02D 41/18** (2006.01); **G01F 1/68** (2006.01); **G01F 1/684** (2006.01); **G01F 5/00** (2006.01)

CPC (source: EP KR US)

F02D 41/187 (2013.01 - EP US); **G01F 1/68** (2013.01 - KR); **G01F 1/6842** (2013.01 - EP US); **G01F 5/00** (2013.01 - EP US)

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